

# ATTACHMENT 1

## FIELD CHANGE REQUEST FORMS

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**NW Natural and Siltronic Corporation  
Gasco Sediments Cleanup Action  
Field Change Request Form**

**Project Name:** Gasco Sediments Cleanup Action **Subconsultant:** Anchor QEA

**Field Activity:** Coring and Boring **Request Number:** 001

**To:** EPA **Date:** 09/28/2010

**Field Change Request (FCR) Title:** Additional Sample Collection – Coring and Boring

**Description:** NW Natural proposes the collection of additional samples beyond those proposed in the Project AIR and Data Gaps QAPP at target in-water coring and riverbank stations to support internal NW Natural data evaluations. This additional data collection will in no way affect the objectives of the EPA-approved data gap sampling and will be dependent on volume availability. The samples will be collected, processed, named, handled, and analyzed using the EPA-approved procedures identified in the Project AIR and Data Gaps QAPP.

**Recommended Change:** At proposed coring stations DGS-03, DGS-11, DGS-20, and DGS-30, attempt to collect samples from discrete horizons of visually contaminated and intervening layers. At proposed coring stations DGS-36, DGS-07, DGS-08, DGS-19, DGS-22, DGS-24, DGS-26 and DGS-32, attempt to collect samples from apparent contamination only. At proposed riverbank boring stations GST-06, GSM-08, GST-09, GST-11 and/or GST-13, attempt to collect samples within discrete zones of product only. The samples will be submitted for analyses of PAHs and VOCs at Analytical Resources, Inc (laboratory used for remainder of NW Natural data gaps sampling chemical/physical analyses). The additional data results would be included in the EE/CA and Data Report.

Ryan Barth

**Respondent Field Coordinator (or Designee)**



**Signature**

9/28/2010

**Date**

**Approval:**

Ryan Barth

**Respondent Project Lead**



**Signature**

9/28/2010

**Date**

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Field Change Request Form**

**Project Name:** Gasco Sediments Cleanup Action **Subconsultant:** Anchor QEA


**Field Activity:** In-water sediment coring **Request Number:** 002

**To:** EPA **Date:** October 7, 2010


**Field Change Request (FCR) Title:** Completion of TCLP/DRET analysis at revised core station

**Description:** As described in the Final Project AIR and Data Gaps QAPP (AIR), the targeted in-water core locations proposed for TCLP and DRET testing were identified based on existing information providing evidence for the greatest potential for encountering the presence of substantial product and/or elevated chemical mobility. Based on this information, core station DGS-13 was selected for TCLP and DRET analysis. However, core processing at this station did not show the presence of substantial product or visual signs of chemical mobility. Alternatively, the adjacent core station DGS-11, which was not selected for TCLP and DRET analysis in the AIR, showed the presence of substantial product and elevated potential for chemical mobility.

**Recommended Change:** Due to the above findings, NW Natural proposes the elimination of TCLP and DRET testing on station DGS-13 and completion of this testing at the adjacent DGS-11 station.

<u>Ryan Barth</u>		<u>10/7/2010</u>
<b>Respondent Field Coordinator (or Designee)</b>	<b>Signature</b>	<b>Date</b>

**Approval:**

<u>Ryan Barth</u>		<u>10/7/2010</u>
<b>Respondent Project Lead</b>	<b>Signature</b>	<b>Date</b>

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Field Change Request Form**

**Project Name:** Gasco Sediments Cleanup Action **Subconsultant:** Anchor QEA

**Field Activity:** In-water sediment coring **Request Number:** 003

**To:** EPA **Date:** October 8, 2010

**Field Change Request (FCR) Title:** Completion of DRET analysis at revised core station

**Description:** As described in the Final Project AIR and Data Gaps QAPP (AIR), the targeted in-water core locations proposed for DRET testing were identified based on existing information providing evidence for the greatest potential for encountering the presence of substantial product and/or elevated chemical mobility. Based on this information, core station DGS-06 and DGS-23 were selected for TCLP and DRET analysis. However, core processing at these stations did not show the presence of substantial product or visual signs of chemical mobility. Alternatively, contingency core station DGS-18, which was not selected for chemical/physical analysis in the AIR, showed the presence of substantial product and elevated potential for chemical mobility.

**Recommended Change:** Due to the above findings, NW Natural proposes the elimination of DRET testing on station DGS-06 and DGS-23 and completion of this testing at station DGS-18. In addition, TCLP and SBLT will be conducted at station DGS-18 due to the nature of the material encountered.

Ryan Barth  
**Respondent Field Coordinator (or Designee)**



**Signature**

10/8/2010

**Date**

**Approval:**

Ryan Barth  
**Respondent Project Lead**



**Signature**

10/8/2010

**Date**

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**Project Name:** Gasco Sediments Cleanup Action **Subconsultant:** Anchor QEA


**Field Activity:** In-water sediment coring **Request Number:** 004

**To:** EPA **Date:** October 11, 2010

**Field Change Request (FCR) Title:** Collection of 14-foot cores due to lack of water depths

**Description:** The Final Project AIR and Data Gaps QAPP (AIR) proposed the collection of 20-foot cores at each target sediment station. In order to collect a 20-foot core the marine contractor needs approximately 10 feet of water depth to have sufficient clearance of the A-frame assembly. The following target stations did not have the required 10 feet of water depth: DGS-07, DGS-22, DGS-24, and DGS-36.

**Recommended Change:** In order to facilitate core collection in the low water depths encountered at the above stations, the core assembly was converted to a 14-foot collection assembly. This conversion will not affect the data quality objectives identified at these stations.

<u>Ryan Barth</u>		<u>10/11/2010</u>
<b>Respondent Field Coordinator (or Designee)</b>	<b>Signature</b>	<b>Date</b>

**Approval:**

<u>Ryan Barth</u>		<u>10/11/2010</u>
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**Project Name:** Gasco Sediments Cleanup Action **Subconsultant:** Anchor QEA

**Field Activity:** In-water sediment coring **Request Number:** 005

**To:** EPA **Date:** October 11, 2010

**Field Change Request (FCR) Title:** Collection of additional sediment cores

**Description:** Substantial product was identified at station DGS-08 so the AIR required the collection of a contingency core channelward of this station to laterally bound the presence of substantial product in this area.

A contingency core was not identified in the AIR for this station. No substantial product was identified at stations DGS-28 and DGS-30 so the presence of substantial product was bounded in this area. However, the lateral distance between these stations and the next shoreward station (DGS-31) showing substantial product is approximately 125 feet. NW Natural proposes the collection of an additional core between these stations.

**Recommended Change:** A contingency core will be collected approximately 60 feet channelward of station DGS-08 and identified as station DGS-44. This core will be visually assessed for the presence of substantial product in accordance with the AIR. An additional core will also be collected approximately 75 feet channelward of station DGS-31 and identified as station DGS-45 to attempt to further refine the channelward extents of substantial product in this area. This core will be visually assessed for the presence of substantial product.

Ryan Barth

**Respondent Field Coordinator (or Designee)**

Ryan Barth

**Signature**

10/11/2010

**Date**

**Approval:**

Ryan Barth

**Respondent Project Lead**

Ryan Barth

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10/11/2010

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**NW Natural and Siltronic Corporation  
Gasco Sediments Cleanup Action  
Field Change Request Form**

**Project Name:** Gasco Sediments Cleanup Action **Subconsultant:** Maul Foster Alongi

**Field Activity:** Groundwater Sampling **Request Number:** 001

**To:** Sean Sheldrake **Date:** 9/24/2010

**Field Change Request (FCR) Title:** Boring abandonment

**Description:** The field sampling plan calls for abandoning in-river borings greater than one foot below mudline with bentonite grout.

**Recommended Change:** Borings GP-61 and GP-65 were completed to 5 and 3.7 feet below mudline, respectively. The casing was inadvertently withdrawn from these boreholes before bentonite grout was injected. Boring logs for historical sampling conducted in this area were reviewed to evaluate the substrate and the potential for creating a conduit for cross-contamination. Sediment boring logs generally identified sands and silts characteristic of the recent alluvium from the Willamette River. However, of the eight borings reviewed, none of the boring logs showed recovery of any material between zero and three feet below mudline, and only two had recovery between 3 and 5 feet below mudline, indicating very soft and semi-fluid sediment. As a result, the top 3 to 5 feet of sediments are assumed to consist of a soft material that would likely cave in/fill in an opening left by the investigation.

<u>Scout Mauldin</u>		<u>9/23/2010</u>
<b>Respondent Field Coordinator (or Designee)</b>	<b>Signature</b>	<b>Date</b>

**Approval:**

<u>Madi Novak for James Peale</u>		<u>9/23/2010</u>
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